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Appln No. 10/807,642 Reply to Office Action of May 5, 2005

REMARKS/ARGUMENTS

The Office Action dated May 5, 2005, has been reviewed and the comments carefully considered.

In the Office Action, various issues and questions are raised concerning the description of the variety. By the amendments in the accompanying Substitute Specification, Applicant has made a bona fide effort to address all issues and questions. With reference to point (H), Applicants note that the propagated trees have been cut back for root stock, so flowers/fruit have not been observed.

In view of the foregoing amendment and response, it is believed that the application is in condition for allowance and, accordingly, reconsideration and allowance is earnestly solicited.

If any questions remain regarding the allowability of the application, Applicant would appreciate if the Examiner would advise the undersigned by telephone.

The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 and 1.17 which may be required by this paper to Deposit Account No. 03-1728. Please show our docket number with any charge or credit to our Deposit Account.

Respectfully submitted,
CHRISTIE, PARKER & HALE, LLP

Cyffthia A. Bonner

Reg. No. 44,548 626/795-9900

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SUBSTITUTE SPECIFICATION (MARKED UP COPY)

51409/CAB/P690

PISTACHIO ROOTSTOCK NAMED 'P.N. 20-18'

LATIN NAME OF GENUS AND SPECIES

The present invention relates to a new *Pistachie <u>Pistacia</u> sp.* tree, designated 'P.N. 20-18'.

5 BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct variety of pistachio tree.

The new variety was discovered in an open-pollinated seed plot in Delano, California.

Seeds were collected from the seed plot in 1988 and planted in 1989 for testing.

Yield data was collected from 1998 to 2000.

10 SUMMARY OF THE INVENTION

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The 'P.N. 20-18' variety is characterized by the rounded and upright growth of the plant, the glabrous and leathery characteristic of the foliage, and its particular usefulness as a rootstock upon which commercial nut bearing pistachio varieties may be budded or grafted. Testing of the new variety as a rootstock revealed that stock grafted onto the new variety produce more fruit than stock grafted onto *P. integerrima*. The parents of the 'P.N. 20-18' variety are unknown.

'P.N. 20-18' was used as a rootstock for Kerman pistachios and shown to produce a superior yield of fruit. Cuts were made to this 'P.N. 20-18' rootstock to generate suckers, which were budded onto *P. integerrima* to produce bud wood. Tissue culture was used to propagate more rootstock. Asexual reproduction by budding onto *P. integerrima* at Kern County, California and by tissue culture show that the foregoing and other distinguishing characteristics come true to form and are established and transmitted through succeeding propagation. Other known forms of asexual reproduction for pistachios may also be employed.

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BRIEF DESCRIPTION OF ILLUSTRATIONS

The accompanying photographic illustrations show typical specimens of vegetative growth of the new variety, in color as nearly true as it is reasonably possible to make in a color illustration of this character.

- FIG. 1 shows a three year old pistachio tree of the new variety.
- FIG. 2 shows a close-up of the compound leaves, typically with thirteen leaflets.
- FIG. 3 shows a close-up of the new variety with both medium red to reddish green new leaflets and dark green older leaflets.
- 10 FIG. 4 shows a close-up of the trunk of the new variety.

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DESCRIPTION OF THE NEW VARIETY

Referring now specifically to the new and distinct variety of pistachio tree, the following is a detailed description of three one year old trees (grafted onto three year old *P. integerrima* rootstock) with color description where indicated by reference to *The Royal Horticultural Society Colour Chart*, except where common terms of color definition are employed.

The new variety of pistachio tree as herein described may vary in slight detail due to climatic, soil and cultural conditions under which the variety may be grown, the present description being of the variety as grown at McFarland, Kern County, California.

	Plant:	
	Growth -	Rounded and upright, as indicated in FIG. 1.
	Foliage:	
	Leaves -	Compound of thirteen leaflets (sometimes
15		less), as indicated in FIG. 2.
	Length and Width -	Approximately 8 inches long and 5 inches
		wide at the widest point.
	Leaflets -	Small, with young tissue glossy and lighter
		green than older tissue, which is dull and
20		darker green.
	Shape -	Medium length and lanceolate, apex acute,
		base cuneate.
	Color -	New leaflets are medium red to a reddish
		green, near Greyed-red Group 178B (top
25		surface) and 178B-C (bottom surface), as
		shown in FIG. 3. Older leaflets are dark
		green, near Yellow-green Group 147A (top
		surface) and 147 B (bottom surface), also

as shown in FIG. 3.

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Arrangement -Pinnately compound of thirteen, sometimes less, nearly opposite, lanceolate and sessile. Margin, Venation pattern and color, length (without 5 petiole), width, and texture - Entire with a pinnate and alternate venation pattern; veins are light green, near 147C (mature foliage) or 194C (young foliage). Apex of leaflets is acute. Base of leaf cuneate. 10 The length of the leaflet averages 2.43 inches and 0.82 inches wide at widest spot. The leaflet has a leathery characteristic on top with a smoother surface on bottom. Leaf surface is glabrous. 15 Leaflet Ribs -Ribs of leaflets are green (near 147C in mature leaflets and near 194C in young leaflets). Rachis Length and Color -Rachis length is about 4.41 inches; rachis color is greyed-green, near 195C, with a 20 reddish color, near 181C, at the base. Rachis color on young leaves is greyedred, near 181A-181C. Petiole Length, Diameter. and Color -Petiole length is about 1.43 inches, with a 25 diameter of about 0.102 inches; petiole color is greyed-purple, near 182B. Growth: Height -About 8 feet Spread -About 4 feet

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Trunk -

Trunk is rounded.

Trunk Color -The trunk is light brown in color,

> near Greyed-orange Group 165A, on older growth and red, near

> Greyed-red Group 178B, in newer

growth, as shown in FIG. 4.

Trunk Diameter -About 1.58 inches at 12 inches above soil

> surface. Rough.

Bark Texture -

Vegetative Buds -Vegetative buds are small and

reddish on new growth and green

and larger on older growth.

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WE CLAIM:

A new and distinct variety of pistachio tree, identified as 'P.N. 20-18', substantially as shown and described.

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ABSTRACT

A new and distinct variety of pistachio tree, characterized by the rounded and upright growth of the plant and the glabrous and leathery characteristic of the foliage, which is particularly useful as a rootstock upon which commercial nut bearing pistachio varieties may be budded or grafted.

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